LOGGED BY	BEGIN DATE	COMPLETION DATE	BOREHOLE LOCATION (Lat/Long or North/East and Datum)	HOLE ID
T. Carroll	4-9-08	4-10-08	N2120582.62 / E5994169.98 (NAD83)	BTNB-R5A-PZ-S
DRILLING CONTRACTOR			BOREHOLE LOCATION (Offset, Station, Line)	SURFACE ELEVATION
Gregg Drilling and Testing, Inc.			Offset 154ft R Sta 85+13 NB Alignment	79.370 ft (NAVD88)
DRILLING METHOD			DRILL RIG	BOREHOLE DIAMETER
Mud Rotary			Fraste Multi-drill (track)	4 in.
SAMPLER TYPE(S) AND SIZE(S) (ID)			SPT HAMMER TYPE	HAMMER EFFICIENCY, ERi
HQ Core			N/A	
BOREHOLE BACKFILL AND COMPLETION			GROUNDWATER READINGS DURING DRILLING AFTER DRILLING (DATE)	TOTAL DEPTH OF BORING
2" dia. Standpipe Piezo Screened 15.0 to 35.0 ft				76 ft

ELEVATION (ft)	DEPTH (ft)	Material Graphics	Description	Sample Location	Sample Number	Blows per 6 In	Blows per Foot	Recovery (%)	RQD (%)	Moisture Content (%)	Dry Unit Weight (pcf)	Shear Strength (tsf)	Drilling Method	Casing Depth	Remarks
	0		SEDIMENTARY ROCK (SANDSTONE), fine to medium grained, no apparent bedding, yellowish brown and gray, intensely to moderately weathered, moderately soft, intensely to moderately fractured.												0' to 1' straight drill to set casing
	1				C1			95	0						
77.37	2		1.85', moderately hard, moderately weathered.												
	3		2.8' and 5.4', heavy iron-oxide staining on fracture surfaces, sheared/mylonized clay filled fractures, slight iron-oxide staining throughout rock mass, randomly oriented fracture surfaces.												
75.37	4														
	5														
73.37	6														
	7		Iron-oxide staining reduced to fracture surfaces only.		C2			88	20						
71.37	8														
	9		9.0', very intensely to intensely fractured zone (0.5' thick).												
69.37	10														
	11		10.7', crushed/mylonized zone (0.3' thick).												
67.37	12		12.0', very thinly bedded (alternating light gray and gray), slightly weathered, moderately to slightly fractured, slight weathering on fracture planes, intact rock mass is unstained, hard.		C3			96	39						
	13														
65.37	14		14.0', intensely fractured.												
	15														
63.37	16														
	17		16.5', sheared/crushed/clay-filled zone (0.3' thick). 17.0', very intensely fractured, less iron-oxide staining, no indication of bedding, fine-grained.		C4			80	0						
61.37	18														
	19		18.5', intensely fractured, with mylonized/clay-filled zones at 19.0' and 20.0' up to 0.1' thick.		C5			88	0						At 18.5' switch from face discharge bit to side discharge/ impregnated bit
59.37	20														
	21		21.0', slightly weathered to fresh. 21.3' - 22.1', very intensely fractured.		C6			95	30						
57.37	22		22.1', intensely to moderately fractured.												
	23		23.0', intensely to moderately fractured with very intensely fractured zone from 24.1' to 24.9'.		C7			82	26						
55.37	24														
	25														

(continued)

Department of Transportation
Division of Engineering Services
Geotechnical Services

REPORT TITLE				HOLE ID
BORING RECORD				BTNB-R5A-PZ-S
DIST.	COUNTY	ROUTE	POSTMILE	EA
4	S.F.	101	8.3/9.4	163701
PROJECT OR BRIDGE NAME				
Doyle Drive Replacement Project				
BRIDGE NUMBER	PREPARED BY		DATE	SHEET
34-0161R	T. Carroll		11-3-08	1 of 3

CALTRANS FORMAT DOYLEDRIVE_ARUPLOGS_11-2-08.GPJ ARUP LIBRARY_CALTRANS FORMAT.GLB 11/3/08

Figure

ELEVATION (ft)	DEPTH (ft)	Material Graphics	Description	Sample Location	Sample Number	Blows per 6 In	Blows per Foot	Recovery (%)	RQD (%)	Moisture Content (%)	Dry Unit Weight (pcf)	Shear Strength (tsf)	Drilling Method	Casing Depth	Remarks
	25		SEDIMENTARY ROCK (SANDSTONE), fine to medium grained, no apparent bedding, yellowish brown and gray, intensely to moderately weathered, moderately soft, intensely to moderately fractured. 25.0', occasional thin white vein infilling (quartz?).												
53.37	26														
	27														
51.37	28		28.0', very intensely to intensely fractured, slight clay infilling of fractures.		C8			92	0						
	29														
49.37	30														
	31														Straight drill at 30.5' to 70.6' for PS-logging
47.37	32														
	33														
45.37	34														
	35														
43.37	36														
	37														
41.37	38														
	39														
39.37	40														
	41														
37.37	42														
	43														
35.37	44														
	45														
33.37	46														
	47														
31.37	48														
	49														
29.37	50														
	51														
27.37	52														
	53														
25.37	54														
	55														

(continued)

Department of Transportation
Division of Engineering Services
Geotechnical Services

REPORT TITLE				HOLE ID
BORING RECORD				BTNB-R5A-PZ-S
DIST.	COUNTY	ROUTE	POSTMILE	EA
4	S.F.	101	8.3/9.4	163701
PROJECT OR BRIDGE NAME				
Doyle Drive Replacement Project				
BRIDGE NUMBER	PREPARED BY		DATE	SHEET
34-0161R	T. Carroll		11-3-08	2 of 3

CALTRANS FORMAT DOYLEDRIVE_ARUPLOGS_11-2-08.GPJ ARUP LIBRARY_CALTRANS FORMAT.GLB 11/3/08

Figure

ELEVATION (ft)	DEPTH (ft)	Material Graphics	Description	Sample Location	Sample Number	Blows per 6 In	Blows per Foot	Recovery (%)	RQD (%)	Moisture Content (%)	Dry Unit Weight (pcf)	Shear Strength (tsf)	Drilling Method	Casing Depth	Remarks
	55		SEDIMENTARY ROCK (SANDSTONE), fine to medium grained, no apparent bedding, yellowish brown and gray, intensely to moderately weathered, moderately soft, intensely to moderately fractured.												
23.37	56														
	57														
21.37	58														
	59														
19.37	60														
	61														
17.37	62														
	63														
15.37	64														
	65														
13.37	66														
	67														
11.37	68														
	69														
9.37	70														
	71														
7.37	72														
	73														
5.37	74														
	75														
3.37	76		Borehole terminated at a depth of 76 feet on 4/10/2008. See Boring Record Legend for soil classification chart and key to test data and sampler type.												
	77														
1.37	78														
	79														
-0.63	80														
	81														
-2.63	82														
	83														
-4.63	84														
	85														

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BORING RECORD				BTNB-R5A-PZ-S
DIST.	COUNTY	ROUTE	POSTMILE	EA
4	S.F.	101	8.3/9.4	163701
PROJECT OR BRIDGE NAME				
Doyle Drive Replacement Project				
BRIDGE NUMBER	PREPARED BY		DATE	SHEET
34-0161R	T. Carroll		11-3-08	3 of 3

CALTRANS FORMAT DOYLEDRIVE_ARUPLOGS_11-2-08.GPJ ARUP LIBRARY_CALTRANS FORMAT.GLB 11/3/08

Figure